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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,986	04/20/2005	Gunter Saliger	66489-050	5951
7590 06/16/2006			EXAMINER	
Dykema Gossett			KILKENNY, PATRICK J	
Suite 300 1300 I Street N	ıw		· ART UNIT	PAPER NUMBER
Washington, DC 20005-3353			3732	

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/531,986	SALINGER, GUNTER				
Office Action Summary	Examiner	Art Unit				
	Patrick J. Kilkenny	3732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>20 April 2005</u> .						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 20 April 2005 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119		,				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
August a sauta						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/20/2005. 5) Notice of Informal Patent Application (PTO-152) Contact and Trademark Office						

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 4/20/2005 is noted.

The submission is in compliance with the provisions of 37 CFR 1.97 and 1.98.

Accordingly, the information disclosure statement is being considered by the examiner.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 recites the limitation "said cavity" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 2 recites the limitation "the machining operation" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taub et al. (6,334,772) in view of DaSilva et al. (6,419,484). Taub et al. discloses a system and methods for positioning a dental instrument at the correct position on a preparation sight. The methods involve obtaining a virtual image with computing positiondependent surface features of 2D data (i.e. tooth outline in Figs. 5A and 5B) relative to the desired end position of the dental device (Column 2, lines 56-63 and Column 7, lines 33-40). There is also a real image captured of the device and tooth by a camera located on the hand instrument to be used at the preparation site (Fig. 3). The two images are superimposed using the surface features to bring the two images to coincidence (Column 2, lines 56-63 and Column 7, lines 33-40). The surface features used to bring the two images into coincidence can also be a horizontal line (Figs. 6, 7A, The system for positioning the dental device includes a hand instrument with and 7B). a placement tool (22), a camera (26), and evaluating unit consisting of software for computing the reference features (which can be vectors such as horizontal and vertical lines) (Column 3, lines 43-53). The camera is integrated into the instrument and near the end of the placement tool. The distance for the placement tool end to the camera is known the depth of focus allows for close viewing and the lens can be a panoramic lens (Column 5, lines 47-50). Taub et al. does not disclose that the alignment is for positioning and implant into a jaw cavity and that the tool is a machining tool for drilling the cavity. DaSilva et al. discloses using optical fibers adjacent a dental drill for correct

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positioning of the drill. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system and methods of Taub et al., by incorporating a dental drill as the tool in the system for proper placement, as taught by DaSilva, since the methods of aligning the end position of the device are the same and it is known, and important, to keep dental drills within precise locations to avoid nerve damage.

With respect to claim 7, the office takes Official Notice that an illumination means, even if they are not directly incorporated into the image capture device are always used in image capturing (i.e. external light sources or natural lighting).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO –892 for prior art of recordAny inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick J. Kilkenny whose telephone number is (571) 272-8684. The examiner can normally be reached on Mon-Fri, 8-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Bianco can be reached on (571) 272-4940. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patrick J. Kilkenny

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Celiolou

PJK

PATRICIA BIANCO
PRIMARY EXAMINER

6/12/06